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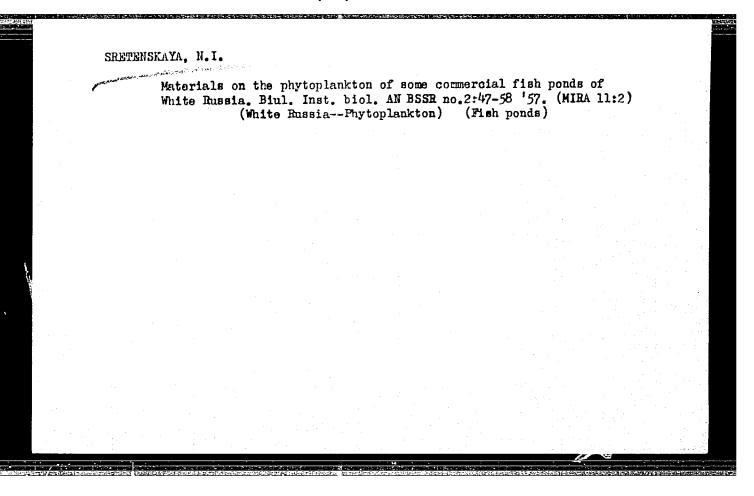
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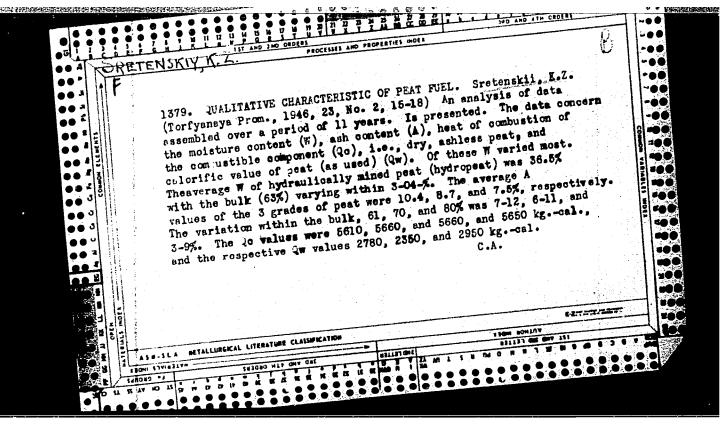
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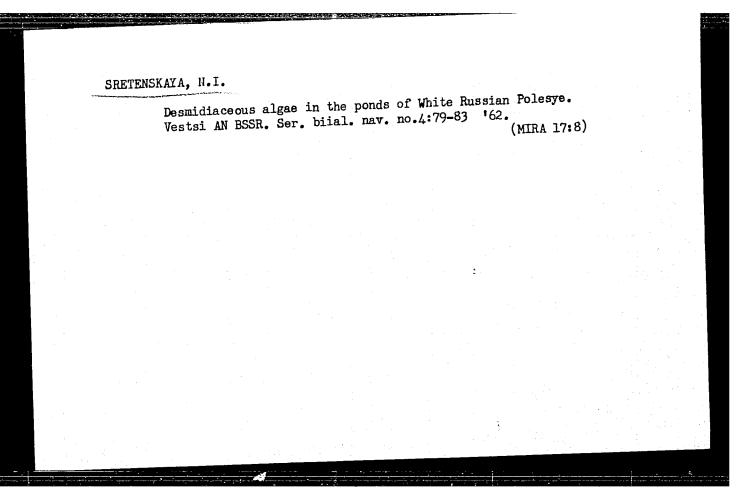


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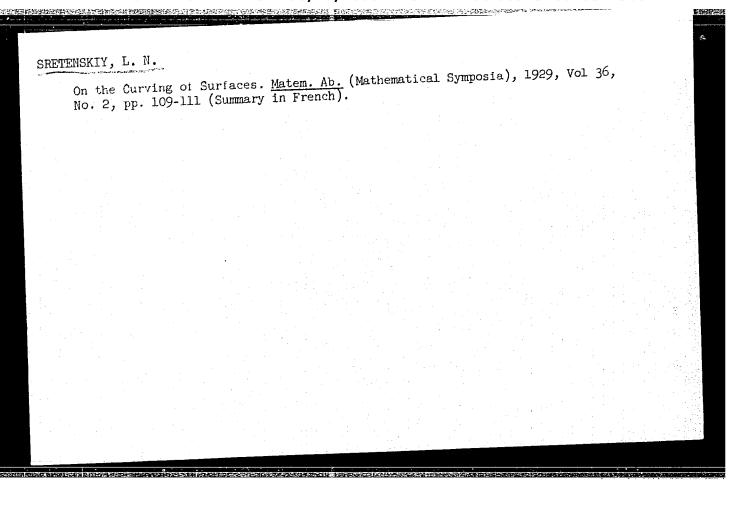
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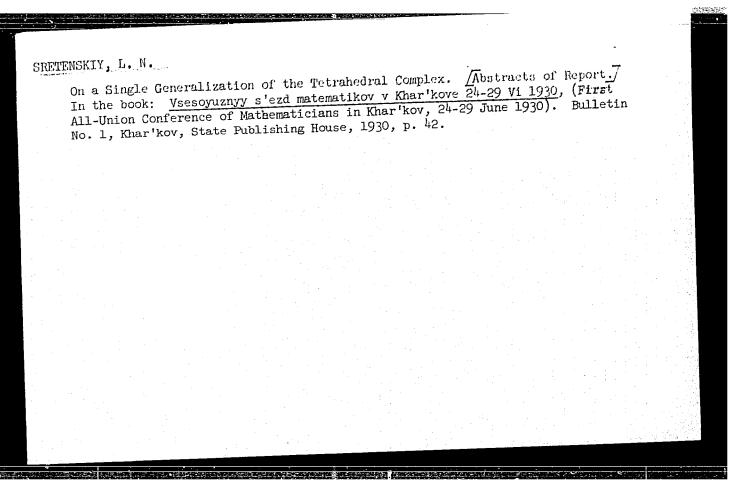
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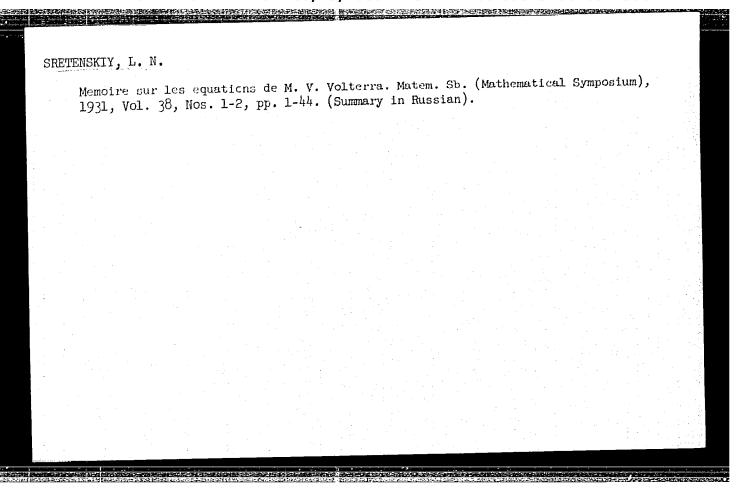


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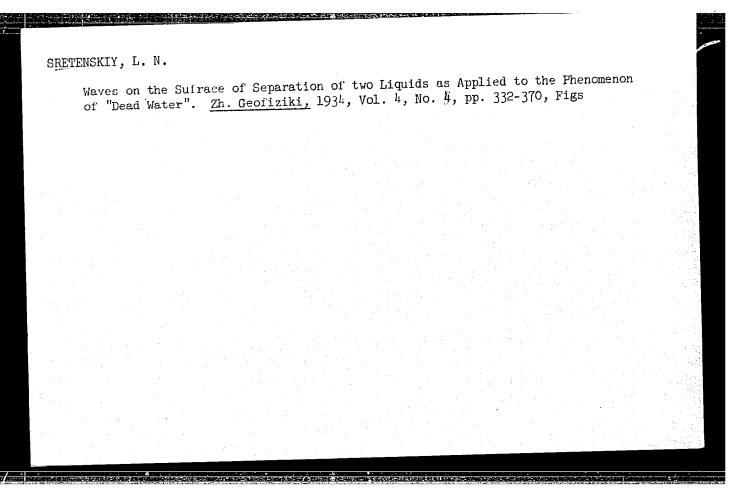
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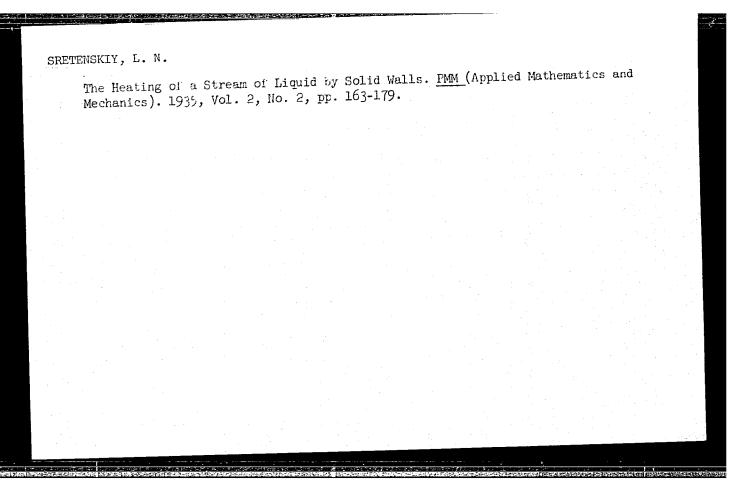
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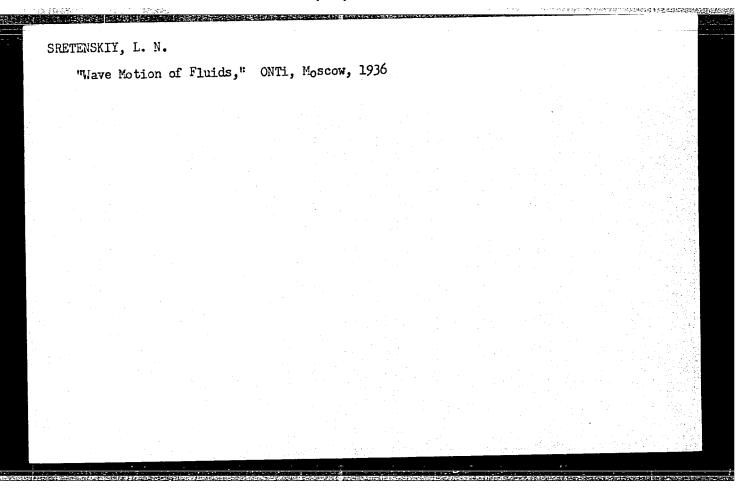
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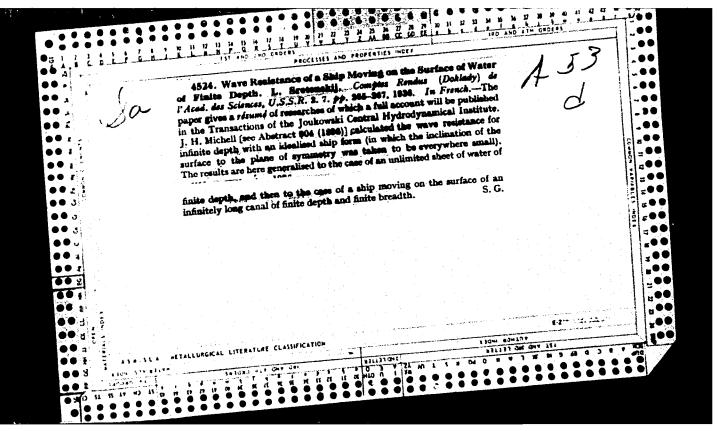
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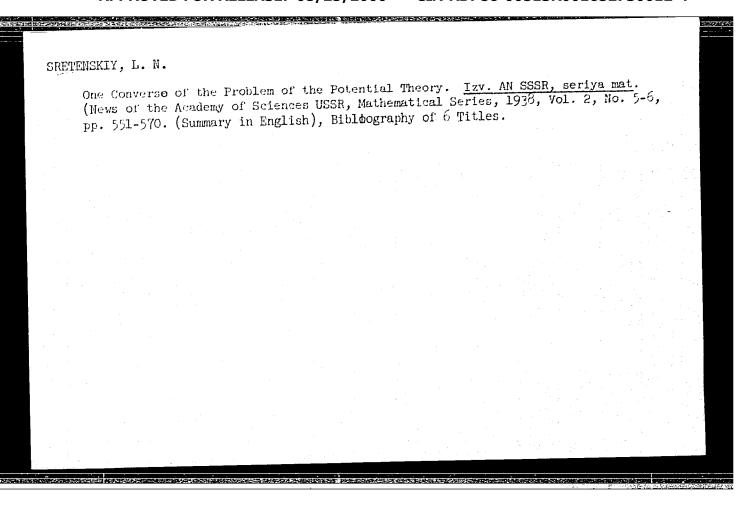
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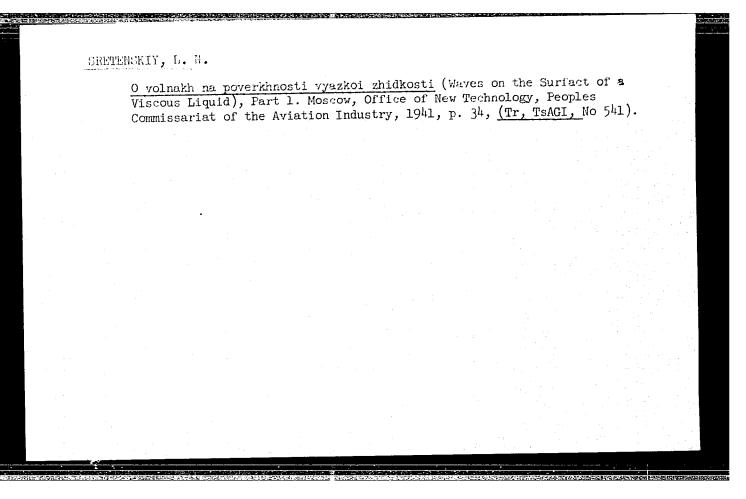
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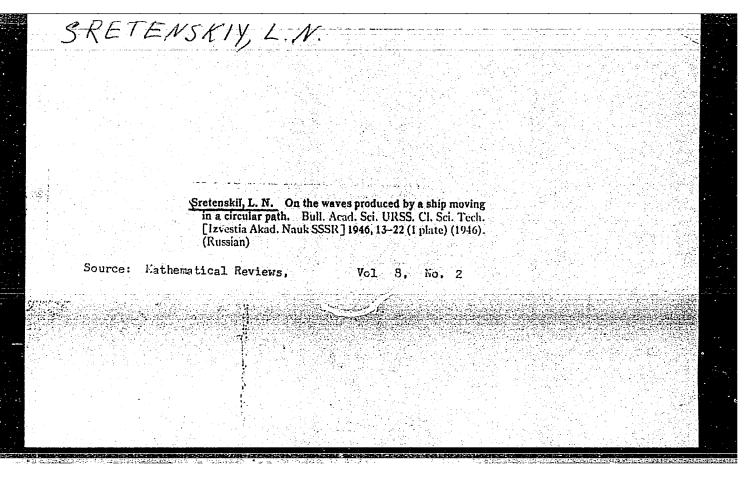
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A well known it alt in the Hilbert-Schmidt theory of it regral equations is that, if K(s,t) is a symmetric V^2 kernel, and f(t) is an V^2 function or thogonal to all the characteristic functions $\varphi_s(t)$ of K, then f(K(s,t))f(t)dt=0. The author deduces this by a roundalisant method from the Hilbert formula, which may be written in Hilbert space notation as

$$(Kf, g) = \sum_{i=1}^{r} (f_i, \varphi_i)(g_i, \varphi_i)/\lambda_{ij}$$

the λ , being the characteristic values of K. He claims the merit of avoiding all meation of the iterated kernels K^* .

The result can be proved from the author's assumptions by the following argument. Let $(f, \varphi_i) = 0$ (all i). Then $(Kf, g) = \sum_{i=1}^{p} \lambda_i^{-1}(f, \varphi_i)(g, \varphi_i) = 0$ for all \mathfrak{L}^2 functions g. Take g = Kf, and we have $||Kf||^2 = 0$, Kf = 0. F. Smithies.

Source: Mathematical Reviews.

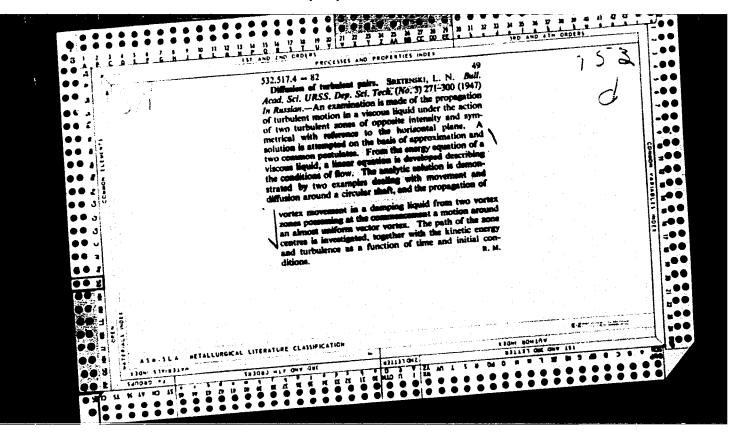
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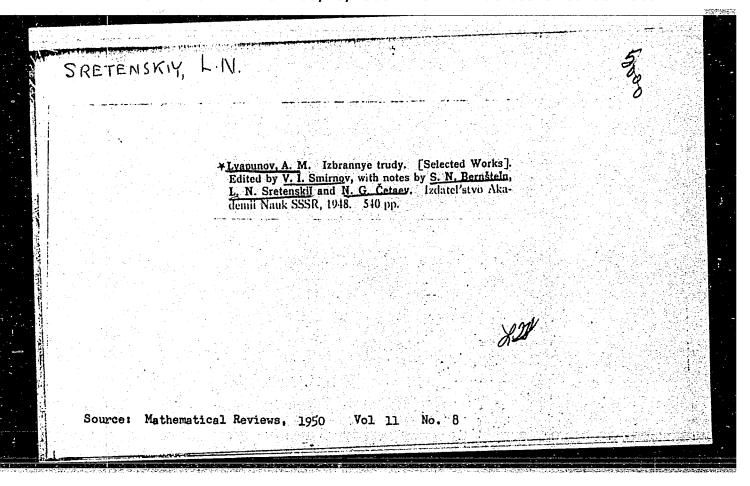
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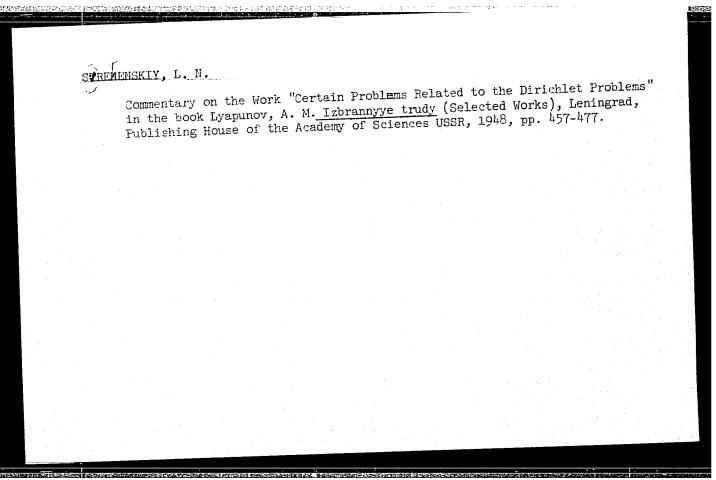
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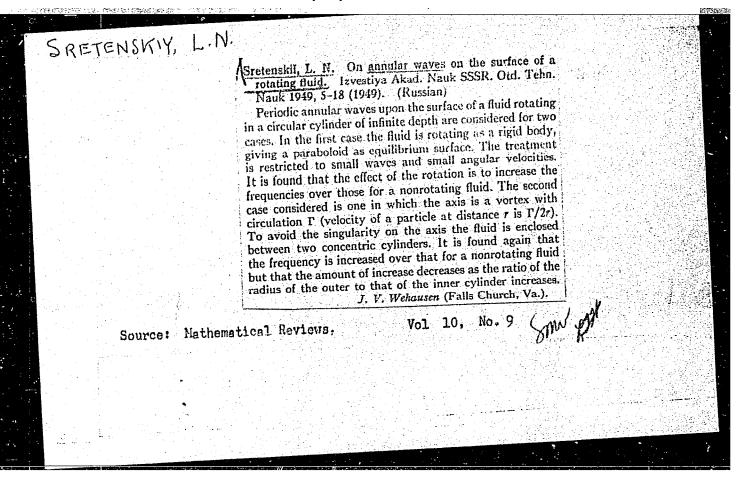


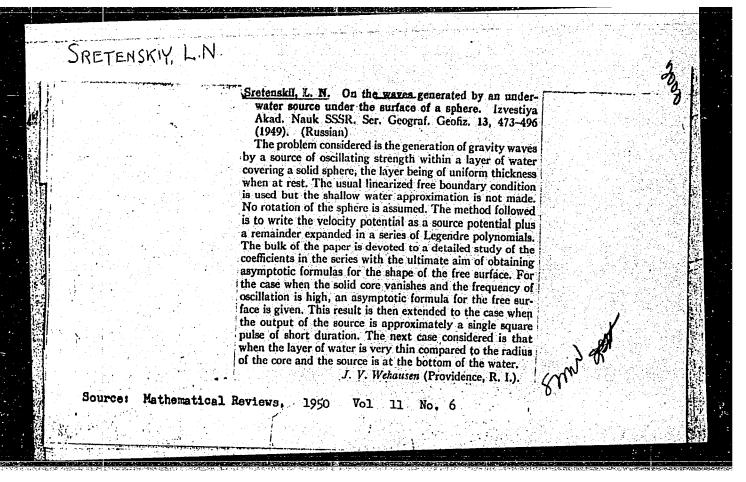


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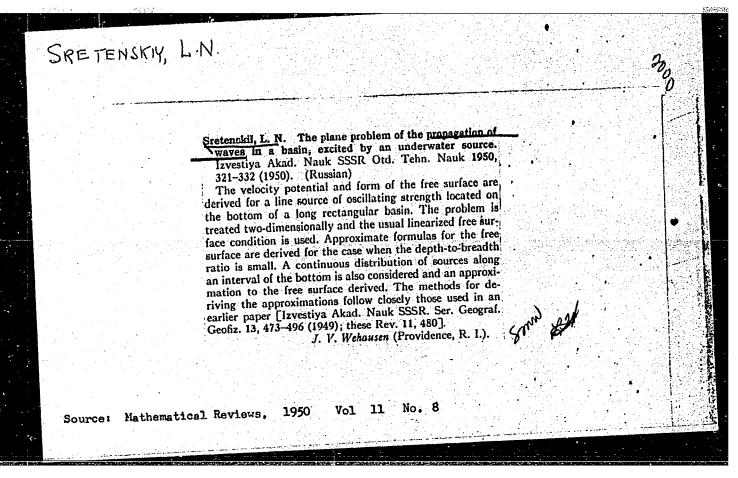


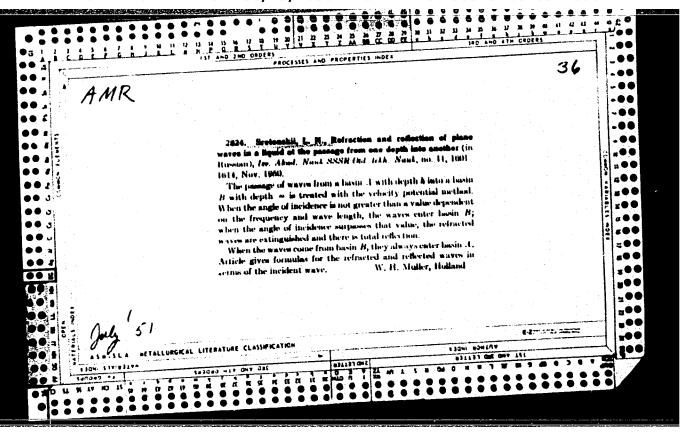
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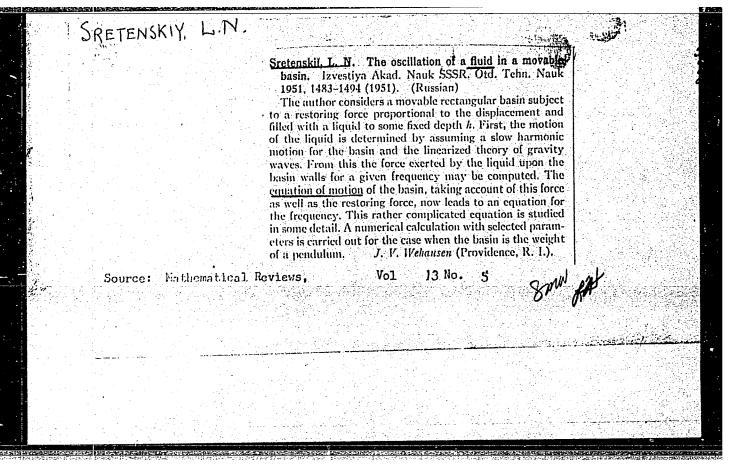
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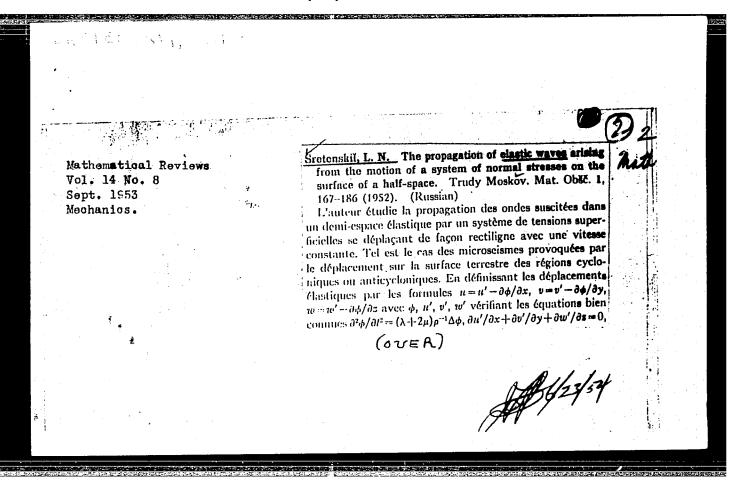
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Sound Mayes

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 $\partial^2 u'/\partial l^2 = \mu \rho^{-1} \Delta u'$, $\partial^2 v'/\partial l^2 = \mu \rho^{-1} \Delta v'$, $\partial^2 w'/\partial l^2 = \mu \rho^{-1} \Delta w'$ et en donnant au tenseur de la tension la forme

$$X_{x} = -\lambda \Delta \phi - 2\mu \frac{\partial^{2} \phi}{\partial x^{2}} + 2\mu \frac{\partial u'}{\partial x}, \quad \cdots,$$

$$Y_s = Z_v = -2\mu \frac{\partial^2 \phi}{\partial y \partial z} + \mu \left(\frac{\partial w'}{\partial y} + \frac{\partial v'}{\partial z} \right), \dots,$$

l'auteur cherche les solutions élémentaires sous la forme

$$\phi = D \exp \left[i(kx+my+\alpha t)+\gamma z\right],$$

$$u' = A \exp \left[i(kx+my+\alpha t)+ss\right], \dots$$

Les conditions superficielles

$$X_{\bullet}=0$$
, $Y_{\bullet}=0$, $Z_{\bullet}=f\exp\left[i(kx+my+\alpha t)\right]$

permettent de mener les calculs jusqu'au bout. L'auteur étudie le cas de tensions localisées dans une bande parallèle à l'axe des abscisses et le cas du système de pressions P=T pour (-ct-a < x < -ct+a) et nulle partout ailleurs. Dans tous ces cas on peut calculer les déplacements superficic les à une distance suffisamment grande de la trajectoire du système donné des tensions normales. V. A. Kollista.

SPETENSKIY, L.N	219136	"Iz Ak Nauk SSSR, Otdel Tekh Nauk" No 5, pp 688-698 Develops eq for profile of steady waves of finite amplitude, formula for velocity of these waves and tions of the theory of waves and main phenomena of this theory were obtained on basis of G. G.Stokes method improved by author. New approach to soln method improved by author of numerous problems from theory of undulatory motions of fluids helps to make corrections which are necessary due to nonlinear character of boundary conditions.	tory Finite Acad S
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SRETENSKIY, L.N.

402. Stetenskil L. N., Motion of the Goryachev-Chaplight evidicoon (in Russian), Iro. Akud. Nauk SSSR Ota. tekh. Nauk no. 1, 109-119, Jaz. 1953.

The problem of motion under gravity of a body, one of whose points O is fixed, has been solved by Euler (when the fixed point O is the center of gravity of the body), Lagrange (when two of the principal moments of inertia at the point O are equal, i.e., $A = B_i^0$ and the center of gravity lies on the third axis of inertia of the body), and Mme. Kovalevskii (when A = B = 2C and when, further, the center of gravity is situated in the plane of the equal moments of inertia). In each of these cases the general solution contains five arbitrary constants of integration. Goryachev [Mat. Sbornik 21, 431–438, 1880] showed that the problem is also solva-He when A = B = 4C, the center of gravity is in the plane of equal moments of inertia at O, and when, further, the angular momentum about the vertical through O is zero. In this case the solution contains three arbitrary constants. Finally, Chapligia (Tran. Sec. Imp. Nat. Mosc. 10, fasc. 2, 31-34, 1899 = Collected Works, Moscow-Leningrad, Izd. Tekh. Teor. Lit., 1948, vol. I] showed that, under the assumptions made by Goryachev, another particular integral exists, and hence there exists a solution depending upon four arbitrary constants.

Let the line through the fixed point O and the center of gravity be taken as the Ox-axis, and let the center of gravity be at the distance α from O; let the Eulerian angles ϵ , ω , φ , which define the position of the principal axes of inertia Oxyz with reference to fixed rectangular axes OXYZ, of which the axis OZ is vertical, be defined as follows: ϵ is the angle between the axes OZ and Ox, ω is the angle between OX-axis and the line of intersection OY of the

planes XOY and yOz, and we is the angle between Oy and Oy-axis. Further, let p, g, r be the components along the axes Oxyx of the angular velocity of the body, and let P he its weight.

The aut. investigates the motion of the Goryachev-Chapligin gyroscope assuming that initially: (1) The axes OX and Ox coincide, while the axes Oy and Ox make with the axes OY and Ox respectively, an angle θ_0 , and (2) that a large spin is given about the Ox-axis to the body, i.e., $p = p_0$, g = r = 0, where p_0 is large. The results obtained may be summed up as follows: The amplitudes of the oscillations of $\cos x$ vary in such a way as to produce heats. The period of the beats is $4\pi p_0/3a$, while the period of the small oscillations, constituting the beats, is π/p_0 , where $\alpha = P\alpha/C$. The axis of the gyroscope, performing the above-mentioned oscillations, passes through the equatorial plane of the fixed sphere of radius one described about O at times $t_{\mu} = \frac{1}{p_0}/3a$ ($n\pi - \lambda \sin \theta_0$), $t_{\mu} = \frac{1}{p_0}(n\pi - \theta_0)$, where $\lambda = a/2p_0^2$ and n, m = 0, ± 1 , ± 2 , ...

At each of these instants, the angle changes the sense of its variation, i.e., it passes from an increasing angle to a decreasing one, and conversely. In addition, ω attains its relative extremum values at times $t_a' = t_a + 4\pi p_b/6a$.

The angle φ varies almost proportionally to the time with velocity p_0 n at the instants l_n , when the axis of the gyroscope is horizontal. Near the instants of time corresponding to maximum inclinations of the axis of the gyrocope to the equator of the fixed sphere, the angle φ changes the sense of its variation.

E. Leimanie, Canada

3-2-55 LL

STREAMSKIY, L. R.

Engineers

Scientific creativeness of S. A. Chaplygin. On the 10th anniversary of his death. Izv. AN SSSR. Otd. tekh. nauk No. 1, 1953.

Monthly List of Musian Accessions, Library of Congress, June 1953. Unclassified.

SRETENSKIY, L. N.

USSR/Engineering - Hydraulics, Wave
. Theory

"Finite Amplitude Waves Caused by Periodically Distributed Pressure," L. N. Sretenskiy, Corr Mb Acad Sci USSR

Iz Ak Nauk, OTN No 4, pp 505-511

Develops method of joint use of Euler and Lagrange variables which, according to author, simplifies solution of various problems of wave theory. In particular, this method permits to find wave motions,

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occurring from periodically distributed pressures, and also makes it possible to determine entire flow of liquid in case which can not be studied by methods of theory of infinitesimal waves.

SRETENSKTY, L. N.

Among the papers presented by the First All-Union Conference on Aerohydrodynamics (E-13 Dec 1952) convened by the Institute of Mechanics, Academy of Sciences USSR, was:

"Spatial Steady State Waves of Finite Amplitude" by Sretenskiy, L. N.

SO: Izvestiya AN USSR, Otdeleniye Tekhnicheskikh Nauk, No.6, Moscow, June 1953, (W-30662, 12 July 1954)

SRETENSKIY, L. N. Cor, Mbr. AS USSR

"Waves of Finite Amplitude on the Surface of a Three-Dimensional Flow," report given at the All-University Scientific Conference "Lomonosov Lectures" Vest. Mosk. Un., No.8, 1953.

Translation U-7895, 1 Mar 56

1. Kafedra gidromekhaniki. (Problem of three bodies)		Motion of three points on rotating orbits. Vest. Mosk.un. 8 no.2:15-1'53. (MLRA 6:	19 F :5)
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SRETENSKIY, L. N.

"Comments on the Posthumous Work of N. N. Luzin on the Integration of the Equations of Buckling of the Surfaces on the Principal Basis," Usp. mat. Nauk, Vol.3, No.2 (54), pp 75-82, 1953

Written on the third anniversary of N. N. Luzin's death. An editorial note states that certain unpublished manuscripts of N.N.Luzin will appear in this journal, with articles on his works.

PETROVSKIY, I.G.; VOVCHENKO, C.D.; SALISHCHEV, K.A.; SERCEYEV, E.M.;

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ALEKSANDROV, P.S.; SEBOLEY S.T.; BAKHVALOV, S.B.; OGUBALOV, P.M.;

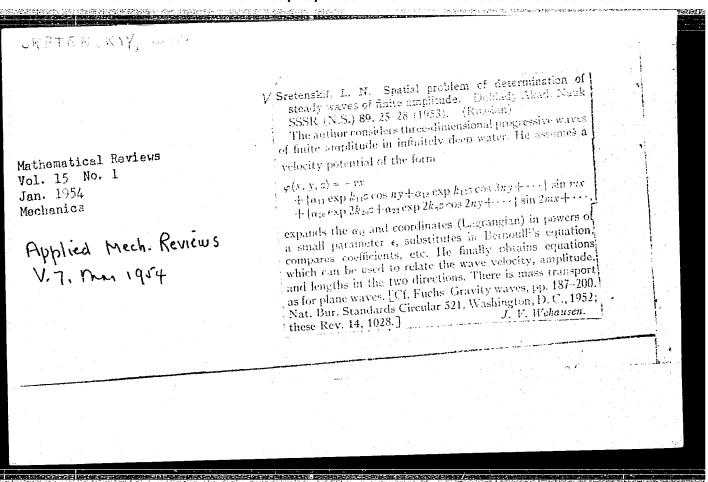
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ZHEGAIKINA-SLUDSKAYA, M.A.

Vsevolod Aleksandrovich Kudriavtsev; obituary. Vest.Mosk.un. 8

no.12:129 D '53.

(Kudriavtsev, Vsevolod Aleksandrovich, 1885-1953)



SRETENSKIY, L. N.

USSR/Physics - Hydrodynamics

1 Jul 53

"Problem of Turbulence in a Wave," A. A. Dmitriyev and T. V. Bonchkovskaya

DAN SSSR, Vol 91, No 1, pp 31-33

Solve the system of eqs set up by L. N. Sretenskiy (Trudy TsAGI /Works of the Central Aerohydrodynamical Institute/, No 541, Part 1 (1941)), for the movement of a viscous liquid under the influence of wind currents and sea-bottom friction. State that turbulence of waves has received little study, according to the literature. Presented by Acad V. V. Shuleykin 20 Apr 53.

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LYAPUNOV, A.M.; SRETENSKIY, L.N., otvetstvennyy redaktor; KOLMOGOROV, A.M., akademik; SNIHNOV, V.I., akademik; SUBBOTIN, M.F.; ISHLINSKIY, A.Yu.; MIGIRENKO, G.S., kandidat fizicheskikh-matematicheskikh nauk; PETKE-VICH, V.V., kandidat fizicheskikh-matematicheskikh nauk; GERKOGENOV, A.V., redaktor; ALEKSEYEVA, T.V., tekhnicheskiy redaktor.

[Collected works] Sobranie sochinenii. Moskva, Izd-vo Akademii nauk SSSR. Vol. 1. 1954. 446 p. (MIRA 7:11)

1. Chlen-korrespondent Akademii nauk SSSR (for Sretenskiy and Subbotin) 2. Deystvitel'nyy chlen Akademii nauk SSSR (for Izhlinskiy)
(Liapunov, Aleksandr Mikhailovich, 1857-1918) (Mathematics)

FD 348

USSR/Geophysics - Sound propagation

Card 1/1

Author

: Sretenskiy, L. N.

Title

: Propagation of sound in an isothermic atmosphere

Periodical : Izv. AN SSSR, Ser. geofiz. 2, 134-142, Mar/Apr 1954

Abstract

: Treats the problem concerning the propagation in the atmosphere of the sound from a point source taking into account the force of gravity. By means of the Fourier-Bessel integral the author constructs the potential of the acoustic field for which he obtains asymptotic expressions convenient

for the case of great distances from the source. No references.

Institution : Marine Hydrophysics Institute, Acad Sci USSR

Submitted

: November 6, 1953

SOV/124-57-7-7931

Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 7, p 67 (USSR)

AUTHOR: Sretenskiy, L.N.

TITLE: Motion of a Vibrator Underneath the Surface of a Liquid (Dvizheniye

vibratora pod poverkhnosťyu zhidkosti)

PERIODICAL: Tr. Mosk. matem. o-va, 1954, Vol 3, pp 3-14

ABSTRACT: Investigation is made of the problem of the motion caused by a pulsating source underneath the surface of a heavy liquid of infinite depth.

This problem was investigated for both the spatial and the two-dimensional cases in the work of the reviewer (Prikl. matem. i mekhanika, 1946; RZhMekh., 1956. abstract 1491). With respect to the spatial case the author treats in greater detail the asymptotic aspect of the disturbed surface of the liquid at great distances from the source.

M. D. Khaskind

Card 1/1

SRETENSKIY, L.N.

USSR/Mathematics

Card 1/1 Pub. 22 - 5/47

Authors : Sretenskiy, L. N., member corresp. of the Acad. of Scs. of the USSR

Title : About the soleness of determination of the shape of an attracting body from

the values of its outer potentials

Periodical: Dok. AN SSSR 99/1, 21-22, Nov 1, 1954

Abstract : Referring to Novikov's lemma and theorem, dealing with the shape determina-

tion of attracting bodies (published in 1938), the author describes his own method, based on the Novikov lemma, of the soleness in determination of the shape of an attracting body strictly from the values of outer potentials of

the latter. One reference (1938).

Institution : Navy Hydro-Physical Institute of the Acad. of Scs. of the USSR

Submitted : ...

USSR/Geophysics - Surface of separation

FD-2891

Card 1/1

Pub. 45 - 2/11

Author

: Sretenskiy, L. N.

Title

: Cauchy-Poisson problem for the surface of separation of two flowing

streams

Periodical

: Izv. AN SSSR, Ser. geofiz., Nov-Dec 1955, 505-513

Abstract

: The author considers the problem of the gravitational waves that

arise on the horizontal surface of separation of two flowing

fluids. He studies in detail the particular case of given initial

disturbance. No references or acknowledgements.

Institution

: Marine Hydrophysics Institute, Academy of Sciences of the USSR

Submitted

: July 22, 1955

STRETENSKIY, L. N.

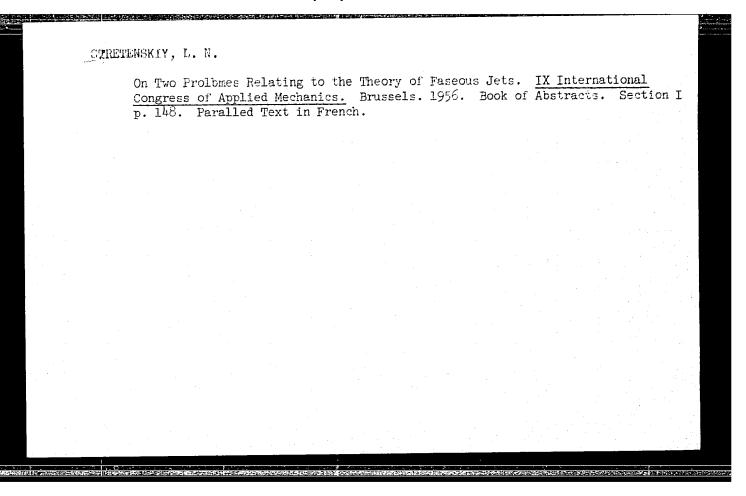
The Formation of Regular Sequences of Waves. In the book: tezisy dokladov mekhaniko-matematicheskogo fakul-tete Moskevsk un-ta (Thesis of Reports of the Mechanico-Mathematical Faculty of Moscow Institute), Moscow, Moscow State University, 1955, p. 16. (Jubilee Scientific Session Dedicated to the 200th Anniversary of the University, 9-13 May 1955).

Occurence of waves of terminal amplitude in a round canal. Trudy MGI 6:3-9 155. (Maves) (MIRA 9:6)

SRETENSKIY, L.A Distr: LEAf 925. Statenskii, L. H., Cauchy-Poisson problem for the separation surface of two flow purfaces (in Russian), Izv. Akad. Nauk 555R, Ser. geo/iz. no. 6, 505-513, 1935; Ref. 2b. Mekb. 1956; First of all a class of particular solutions of the Laplace equation is sought $\mathfrak{F}_{1}(x,y,t) = F_{1}(t) \in k(y+ix)$ $\eta = kH(t) e^{ikx}$ $q = F_1(x, y, t) = F_1(t) e^{-k(y - ix)}$ which satisfy the conditions for union of the pressures on the division line of the flows and also kinematic conditions. Here of and q are the velocity potentials of the upper and lower flows, $\eta = \eta(x)$ is the division line. The functions which were found are used for construction of the Fourier integral which gives a formal solution of the Cauchy-Poisson problem in the form $\varphi_1(x, \theta_1 0) = /_1(x)$ $\varphi_2(x, \theta_1, 0) = /_2(x)$ The integral found is convergent at very strict limitations, which were imposed on the character of the tendency to zero of the functions / and / at | x | - 0. The detailed analysis is given for the

STRETENSKIY, L. N.

Potential Theory. BSE, Second Edition, Vol. 34, 1955, pp. 272-273, Figs. Bibliogrpahy of 4 Titles.

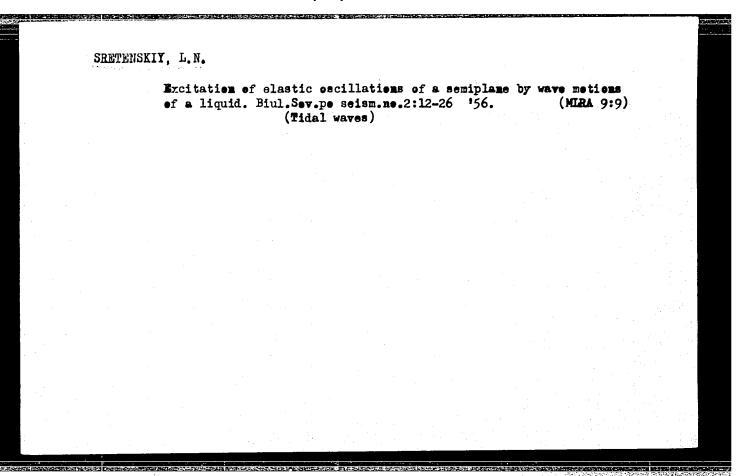


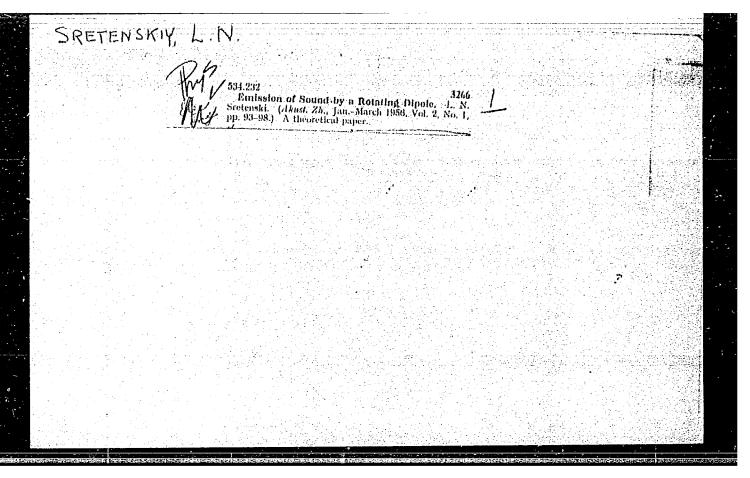
LYAPUNOV, Aleksandr Mikhaylovich, akademik; SRETENSKIY, L.N., redaktor; KOLMOGOROV, A.N., akademik, redaktor; SMIRNOV, V.I., akademik, redaktor; SUBBOTIN, M.F., redaktor; ISHLINSKIY, A.Yu., redaktor; MIGIRENKO, G.S., kandidat fiz.-mat. nauk, redaktor; PETKEVICH, . V.V., kandidat fiz.-mat. nauk, redaktor; KIRNARSKAYA, A.A., tekhnicheskiy redaktor.

[Collected works] Sobranie sochinenii. Moskva, Izd-ve Akademii nauk SSSR. Vol.2. 1956. 472 p. (MLRA 9:6)

1. Chlen-korrespondent AN SSSR (for Sretenskiy, Subbotin).

2. Deystvitel'nyy chlen AN USSR (for Ishlinskiy)
(Dynamics) (Differential equations)





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SRETENSIY,	L-N.		
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	2246. Stetenskil, L. N., Directional propagation of waves from a region undergoing external pressure changes (in Russian), Prikl. Mat. Mekb. 20, 3, 349-361, May-June 1956. Paper is a thorough analysis of wave action in horizontal directions in an infinitely deep mass of a fluid subjected in a limited	4E4c 4E5d	CATH W POLICY CONTRACTOR
	part of its surface to pressure changing its intensity with time in accordance with laws of harmonic motion. Theoretical investigations are based on the assumption that the potential of velocity $\varphi(x, y, z, t)$ complies with Laplace equation for both extreme conditions (for surface $x = 0$, and for infinite depth $x = -\infty$). Reference is made to Whittaker, E. T., and Watson, G. N., "A course of modern analysis," par. 94. See also Whittaker, E. T., "A treatise		
	on the analytical dynamics of particles and rigid bodies," Dover Publications, New York, 1944. J. J. Polivka, USA	2	

The La Resistance Due Aux Vapels D'un Fluide Visqueux,"
paper submitted at Symposium on Behavior of Ship in a Seaway, Vageningen,
Netherlands, 7-10 Sep 57.